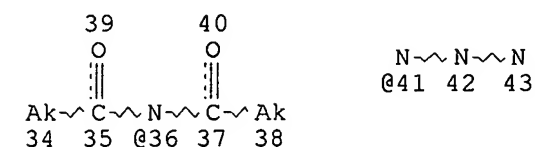
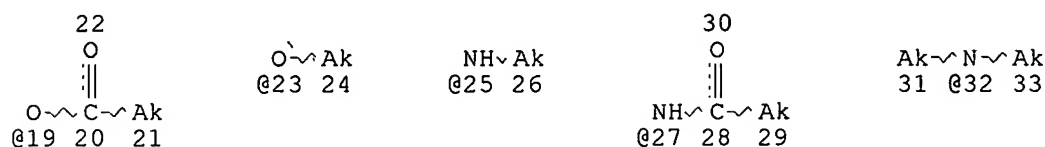
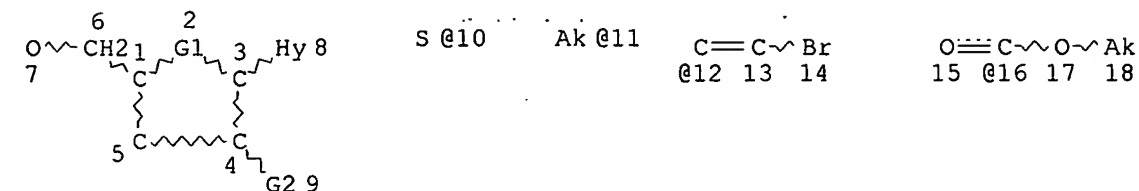


=> d que

L1 (397655)SEA FILE=REGISTRY ABB=ON PLU=ON NC5/ESS AND (N2C3 OR NCNC2
OR N3C2 OR N2CNC)/ESS
L2 (26241)SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND (OC4 OR C5 OR SC4)/ES
L3 STR



VAR G1=O/10/SO2/CH2
VAR G2=OH/11/41/CN/12/16/19/23/X/NO2/NH2/25/27/32/36
NODE ATTRIBUTES:

CONNECT IS E2 RC AT 10
CONNECT IS E1 RC AT 11
CONNECT IS E1 RC AT 18
CONNECT IS E1 RC AT 21
CONNECT IS E1 RC AT 24
CONNECT IS E1 RC AT 26
CONNECT IS E1 RC AT 29
CONNECT IS E1 RC AT 31
CONNECT IS E1 RC AT 33
CONNECT IS E1 RC AT 34
CONNECT IS E1 RC AT 38
DEFAULT MLEVEL IS ATOM
GGCAT IS PCY UNS AT 8
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M2 N AT 8

GRAPH ATTRIBUTES:

RSPEC 4
NUMBER OF NODES IS 43

STEREO ATTRIBUTES: NONE

L4 3150 SEA FILE=REGISTRY SUB=L2 SSS FUL L3
L26 17474 SEA FILE=EMBASE ABB=ON PLU=ON FLAVIVIRUS+NT/CT
L27 6 SEA FILE=EMBASE ABB=ON PLU=ON L4 AND L26

=> @ 127, bib ab hitind 1-6

L27 ANSWER 1 OF 6 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
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ACCESSION NUMBER: 2003338483 EMBASE

TITLE: Preventive and therapeutic approaches to viral agents of bioterrorism.

AUTHOR: Bronze M.S.; Greenfield R.A.

CORPORATE SOURCE: M.S. Bronze, Division of Infectious Diseases, Univ. of OK Health Sciences Center, Oklahoma City Vet. Admin. Med. Ctr., Oklahoma City, OK, United States.
Michael-Bronze@ouhsc.edu

SOURCE: Drug Discovery Today, (15 Aug 2003) 8/16 (740-745).
Refs: 60

ISSN: 1359-6446 CODEN: DDTOfS

PUBLISHER IDENT.: S 1359-6446(03)02778-8

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; General Review

FILE SEGMENT: 004 Microbiology
030 Pharmacology
037 Drug Literature Index
038 Adverse Reactions Titles

LANGUAGE: English

SUMMARY LANGUAGE: English

AB Certain viruses, such as those that cause smallpox and hemorrhagic fevers, have been identified as possible bioterrorism agents by the Centers for Disease Control and Prevention. They have been designated as potential threats because large quantities can be propagated in cell culture, they are transmissible as aerosols and, for the most part, there are only limited vaccine and pharmaceutical strategies for either prevention or treatment of established infection. An additional concern is the potential to genetically modify these agents to enhance virulence or promote resistance to vaccines or identified antivirals. Although the major impact of these agents is human illness, the release of zoonotic agents, such as the Nipah virus, would have consequences for both humans and animals because infected and noninfected animals might need to be sacrificed to control the spread of infection. Continued research is necessary to develop effective strategies to limit the impact of these biological threats.

CT Medical Descriptors:

*virus infection: DT, drug therapy

*infection prevention

biological warfare

pathogenesis

exposure

vaccination

chemoprophylaxis

virus strain

drug safety

drug efficacy

side effect: SI, side effect

antiviral activity

immunity

smallpox: DT, drug therapy

smallpox: PC, prevention

hemorrhagic fever: DT, drug therapy

hemorrhagic fever: ET, etiology
herpes simplex keratitis: DT, drug therapy
chronic hepatitis: DT, drug therapy
hepatitis B: DT, drug therapy
hepatitis C: DT, drug therapy
hepatitis C: ET, etiology
Hepatitis B virus

Hepatitis C virus

human
nonhuman
review

Drug Descriptors:

*antivirus agent: AE, adverse drug reaction
*antivirus agent: DT, drug therapy
*antivirus agent: PD, pharmacology
smallpox vaccine: AE, adverse drug reaction
smallpox vaccine: DT, drug therapy
smallpox vaccine: PD, pharmacology
vidarabine: DT, drug therapy
vidarabine: PD, pharmacology
cytarabine: DT, drug therapy
cytarabine: PD, pharmacology
aciclovir: DT, drug therapy
aciclovir: PD, pharmacology
zidovudine: DT, drug therapy
zidovudine: PD, pharmacology
didanosine: DT, drug therapy
didanosine: PD, pharmacology
efavirenz: DT, drug therapy
efavirenz: PD, pharmacology
protease inhibitor: DT, drug therapy
protease inhibitor: PD, pharmacology
cidofovir: DT, drug therapy
cidofovir: PD, pharmacology
cidofovir: IH, inhalational drug administration
cidofovir: SC, subcutaneous drug administration
vaccinia vaccine: DT, drug therapy
vaccinia vaccine: PD, pharmacology
gemcitabine: DT, drug therapy
gemcitabine: PD, pharmacology
trifluridine: DT, drug therapy
trifluridine: PD, pharmacology
idoxuridine: DT, drug therapy
idoxuridine: PD, pharmacology
adefovir dipivoxil: DT, drug therapy
adefovir dipivoxil: PD, pharmacology
antiserum: CB, drug combination
antiserum: DT, drug therapy
antiserum: PD, pharmacology
chlorpromazine: DT, drug therapy
chlorpromazine: PD, pharmacology
trifluoperazine: DT, drug therapy
trifluoperazine: PD, pharmacology
ribamidine: DT, drug therapy
ribamidine: PD, pharmacology
5 ethynyl 4 imidazolecarboxamide 1 riboside: DT, drug therapy
5 ethynyl 4 imidazolecarboxamide 1 riboside: PD, pharmacology

adenosylhomocysteinase inhibitor: DT, drug therapy

adenosylhomocysteinase inhibitor: PD, pharmacology

3 deazaaristeromycin: DT, drug therapy

3 deazaaristeromycin: PD, pharmacology

ribavirin: CB, drug combination

ribavirin: DT, drug therapy

ribavirin: PD, pharmacology

RN (vidarabine) 2006-02-2, 5536-17-4; (cytarabine) 147-94-4, 69-74-9;
(aciclovir) 59277-89-3; (zidovudine) 30516-87-1; (didanosine) 69655-05-6;
(efavirenz) 154598-52-4; (proteinase inhibitor) 37205-61-1; (cidofovir)
113852-37-2; (gemcitabine) 103882-84-4; (trifluridine) 70-00-8;
(idoxuridine) 54-42-2; (adefovir dipivoxil) 142340-99-6; (chlorpromazine)
50-53-3, 69-09-0; (trifluoperazine) 117-89-5, 440-17-5; (ribamidine)
119567-79-2, 40372-00-7; (5 ethynyl 4 imidazolecarboxamide 1 riboside)
118908-07-9; (3 deazaaristeromycin) 58316-88-4; (ribavirin)
36791-04-5

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ACCESSION NUMBER: 2002219563 EMBASE

TITLE: Identification of active antiviral compounds against a New
York isolate of West Nile virus.

AUTHOR: Morrey J.D.; Smee D.F.; Sidwell R.W.; Tseng C.

CORPORATE SOURCE: J.D. Morrey, Department of Animal Science, Institute for
Antiviral Research, Utah State University, Logan, UT
84322-4700, United States. jmorrey@cc.usu.edu

SOURCE: Antiviral Research, (2002) 55/1 (107-116).

Refs: 37

ISSN: 0166-3542 CODEN: ARSRDR

PUBLISHER IDENT.: S 0166-3542(02)00013-X

COUNTRY: Netherlands

DOCUMENT TYPE: Journal Article

FILE SEGMENT: 004 Microbiology
030 Pharmacology
037 Drug Literature Index

LANGUAGE: English

SUMMARY LANGUAGE: English

AB The recent West Nile virus (WNV) outbreak in the United States has
increased the need to identify effective therapies for this disease. A
chemotherapeutic approach may be a reasonable strategy because the virus
infection is typically not chronic and antiviral drugs have been
identified to be effective in vitro against other flaviviruses. A panel of
34 substances was tested against infection of a recent New York isolate of
WNV in Vero cells and active compounds were also evaluated in MA-104
cells. Some of these compounds were also evaluated in Vero cells against
the 1937 Uganda isolate of the WNV. Six compounds were identified to be
effective against virus-induced CPE with 50% effective concentrations
(EC(50)) less than 10 µg/ml and with a selectivity index (SI) of
greater than 10. Known inhibitors of orotidine monophosphate decarboxylase
and inosine monophosphate dehydrogenase involved in the synthesis of GTP,
UTP, and TTP were most effective. The compounds 6-azauridine, 6-azauridine
triacetate, cyclopententylcytosine (CPE-C), mycophenolic acid and
pyrazofurin appeared to have the greatest activities against the New York
isolate, followed by 2-thio-6-azauridine. Anti-WNV activity of
6-azauridine was confirmed by virus yield reduction assay when the assay
was performed 2 days after initial infection in Vero cells. The neutral
red assay mean EC(50) of ribavirin was only 106 µg/ml with a mean SI of

9.4 against the New York isolate and only slightly more effective against the Uganda isolate. There were some differences in the drug sensitivities of the New York and Uganda isolates, but when comparisons were made by categorizing drugs according to their modes of action, similarities of activities between the two isolates were identified. .COPYRGT. 2002 Elsevier Science B.V. All rights reserved.

CT

Medical Descriptors:

*antiviral activity
drug identification

West Nile flavivirus

Cercopithecidae

Vero cell

virus isolation

virus strain

strain difference

drug screening

drug efficacy

enzyme inhibition

assay

drug mechanism

nonhuman

controlled study

animal cell

embryo

article

priority journal

Drug Descriptors:

*antivirus agent: CM, drug comparison

*antivirus agent: PD, pharmacology

*inosinate dehydrogenase inhibitor: CM, drug comparison

*inosinate dehydrogenase inhibitor: PD, pharmacology

*enzyme inhibitor: CM, drug comparison

*enzyme inhibitor: PD, pharmacology

*orotidine 5' phosphate decarboxylase inhibitor: CM, drug comparison

*orotidine 5' phosphate decarboxylase inhibitor: PD, pharmacology

neutral red

orotidine 5' phosphate decarboxylase

ribavirin: CM, drug comparison

ribavirin: PD, pharmacology

azauridine: CM, drug comparison

azauridine: PD, pharmacology

azaribine: CM, drug comparison

azaribine: PD, pharmacology

pirazofurin: CM, drug comparison

pirazofurin: PD, pharmacology

azauridine derivative: CM, drug comparison

azauridine derivative: PD, pharmacology

3 deazaguanosine: CM, drug comparison

3 deazaguanosine: PD, pharmacology

mycophenolic acid: CM, drug comparison

mycophenolic acid: PD, pharmacology

ribamidine: CM, drug comparison

ribamidine: PD, pharmacology

selenazofurin: CM, drug comparison

selenazofurin: PD, pharmacology

tiazofurin: CM, drug comparison

tiazofurin: PD, pharmacology

1 (4,5 dihydroxy 3 hydroxymethyl 2 cyclopenten 1 yl)cytosine: CM, drug comparison
 1 (4,5 dihydroxy 3 hydroxymethyl 2 cyclopenten 1 yl)cytosine: PD, pharmacology
 hypericin: CM, drug comparison
 hypericin: PD, pharmacology
 suramin: CM, drug comparison
 suramin: PD, pharmacology
 fluorouridine: CM, drug comparison
 fluorouridine: PD, pharmacology
 9 (2,3 dihydroxypropyl)adenine: CM, drug comparison
 9 (2,3 dihydroxypropyl)adenine: PD, pharmacology
 3 deazaneplanocin A: CM, drug comparison
 3 deazaneplanocin A: PD, pharmacology
 6 bromotocamycin: CM, drug comparison
 6 bromotocamycin: PD, pharmacology
 formycin B: CM, drug comparison
 formycin B: PD, pharmacology
 thiouracil: CM, drug comparison
 thiouracil: PD, pharmacology
 azacitidine: CM, drug comparison
 azacitidine: PD, pharmacology
 cyclopentyluracil: CM, drug comparison
 cyclopentyluracil: PD, pharmacology
 5,6 dihydroazacitidine: CM, drug comparison
 5,6 dihydroazacitidine: PD, pharmacology
 uridine 2',3' dialdehyde: CM, drug comparison
 uridine 2',3' dialdehyde: PD, pharmacology
 unclassified drug
 RN (neutral red) 553-24-2; (orotidine 5' phosphate decarboxylase) 9024-62-8;
 (ribavirin) 36791-04-5; (azauridine) 54-25-1; (azaribine) 2169-64-4;
 (pirazofurin) 30868-30-5; (3 deazaguanosine) 56039-11-3;
 (mycophenolic acid) 23047-11-2, 24280-93-1; (ribamidine) 119567-79-2,
 40372-00-7; (selenazofurin) 83705-13-9; (tiazofurin) 60084-10-8; (1 (4,5
 dihydroxy 3 hydroxymethyl 2 cyclopenten 1 yl)cytosine) 90597-22-1;
 (hypericin) 548-04-9; (suramin) 129-46-4, 145-63-1; (fluorouridine)
 316-46-1; (9 (2,3 dihydroxypropyl)adenine) 716-17-6; (3 deazaneplanocin A)
 102052-95-9; (formycin B) 13877-76-4; (thiouracil) 141-90-2; (azacitidine)
 320-67-2, 52934-49-3; (5,6 dihydroazacitidine) 62402-31-7, 62488-57-7
 CO ICN (United States); National Cancer Institute (United States); Sigma
 (United States); Sangstat; Us army medical research institute for
 infectious diseases

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ACCESSION NUMBER: 2001398755 EMBASE
 TITLE: Viral hemorrhagic fever hazards for travelers in Africa.
 AUTHOR: Isaacson M.
 CORPORATE SOURCE: Dr. M. Isaacson, Private Bag X11, Bryanston 2021, South
 Africa. misaacson@worldonline.co.za
 SOURCE: Clinical Infectious Diseases, (15 Nov 2001) 33/10
 (1707-1712).
 Refs: 39
 ISSN: 1058-4838 CODEN: CIDIEL
 COUNTRY: United States
 DOCUMENT TYPE: Journal; General Review
 FILE SEGMENT: 004: Microbiology

017 Public Health, Social Medicine and Epidemiology
035 Occupational Health and Industrial Medicine
037 Drug Literature Index

LANGUAGE: English

SUMMARY LANGUAGE: English

AB This short review covers 6 viral hemorrhagic fevers (VHFs) that are known to occur in Africa: yellow fever, Rift Valley fever, Crimean-Congo hemorrhagic fever, Lassa fever, Marburg virus disease, and Ebola hemorrhagic fever. All of these have at one time or another affected travelers, often the adventurous kind who are "roughing it" in rural areas, who should therefore be made aware by their physicians or travel health clinics about their potential risk of exposure to any VHF along their travel route and how to minimize the risk. A significant proportion of VHF cases involving travelers have affected expatriate health care workers who were nosocomially exposed in African hospitals or clinics. The VHFs are associated with a high case-fatality rate but are readily prevented by well-known basic precautions.

CT Medical Descriptors:

*virus hemorrhagic fever: DI, diagnosis
*virus hemorrhagic fever: DT, drug therapy
*virus hemorrhagic fever: EP, epidemiology
*virus hemorrhagic fever: PC, prevention
*virus hemorrhagic fever: TH, therapy

*yellow fever: DI, diagnosis
*yellow fever: DT, drug therapy
*yellow fever: EP, epidemiology
*yellow fever: PC, prevention
*Lassa fever: DI, diagnosis
*Lassa fever: DT, drug therapy
*Lassa fever: EP, epidemiology
*Lassa fever: PC, prevention

travel

Africa

Rift Valley fever bunyavirus

Yellow fever flavivirus

Nairo virus

Lassa virus

Marburg virus

Ebola virus

rural area

infection risk

health care personnel

occupational hazard

occupational exposure

hospital infection

fatality

infection prevention

differential diagnosis

blood transfusion

human

review

priority journal

Drug Descriptors:

*antivirus agent: AD, drug administration

*antivirus agent: DT, drug therapy

*antivirus agent: IV, intravenous drug administration

*antivirus agent: PO, oral drug administration

ribavirin: AD, drug administration
ribavirin: DT, drug therapy
ribavirin: IV, intravenous drug administration
ribavirin: PO, oral drug administration
immunoglobulin: DT, drug therapy
adenosylhomocysteinase inhibitor: DV, drug development
3 deazaaristeromycin: DV, drug development

RN (ribavirin) 36791-04-5; (immunoglobulin) 9007-83-4; (3 deazaaristeromycin)
58316-88-4

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ACCESSION NUMBER: 2001383236 EMBASE

TITLE: Hamao Umezawa Memorial Award Lecture 1 'An Odyssey in the
Viral Chemotherapy Field'.

AUTHOR: De Clercq E.

CORPORATE SOURCE: E. De Clercq, Rega Institute for Medical Research,
Katholieke Universiteit Leuven, Minderbroedersstraat 10,
B-3000 Leuven, Belgium. erik.declercq@rega.kuleuven.ac.be

SOURCE: International Journal of Antimicrobial Agents, (2001) 18/4
(309-328).

Refs: 67

ISSN: 0924-8579 CODEN: IAAGEA

PUBLISHER IDENT.: S 0924-8579(01)00411-3

COUNTRY: Netherlands

DOCUMENT TYPE: Journal; Conference Article

FILE SEGMENT: 004 Microbiology
030 Pharmacology
037 Drug Literature Index

LANGUAGE: English

SUMMARY LANGUAGE: English

AB In the search of effective and selective chemotherapeutic agents for the
treatment of viral infections, my 'Odyssey' brought me to explore a
variety of approaches, encompassing interferon and interferon inducers,
suramin and other polyanionic substances, S-adenosylhomocysteine hydrolase
inhibitors, inosine 5'-monophosphate dehydrogenase inhibitors,
5-substituted 2'-deoxyuridines such as (E)-5-(2-bromovinyl)-2'-
deoxyuridine, acyclovir (esters) and other acyclic guanosine analogues,
2',3'-dideoxynucleoside analogues, non-nucleoside reverse transcriptase
inhibitors (NNRTIs), bicyclams, and acyclic nucleoside phosphonates. This
had led to the identification of a number of compounds, efficacious
against such important viral pathogens as human immunodeficiency virus
(HIV), hepatitis B virus (HBV), hepatitis C virus (HCV), herpes simplex
virus (HSV), varicella-zoster virus (VZV), cytomegalovirus (CMV), and
other herpesviruses, pox-, adeno-, polyoma-, and papillomaviruses, and
hemorrhagic fever viruses. .COPYRG. 2001 Elsevier Science B.V. and
International Society of Chemotherapy. All rights reserved.

CT Medical Descriptors:

*virus infection: DT, drug therapy

*virus infection: PC, prevention

*RNA virus

*DNA virus

drug identification

drug efficacy

antiviral activity

Human immunodeficiency virus

Hepatitis B virus

Hepatitis C virus
Herpes simplex virus
Varicella zoster virus
Cytomegalovirus
Herpes virus
Poxvirus
Adenovirus
Polyoma virus
Papilloma virus
drug structure
drug potency
drug research
prophylaxis
human
nonhuman
conference paper
priority journal
Drug Descriptors:
*antiinfective agent
interferon: DT, drug therapy
interferon inducing agent: DT, drug therapy
interferon inducing agent: PD, pharmacology
suramin: DT, drug therapy
suramin: PD, pharmacology
suramin: IV, intravenous drug administration
polyanion
adenosylhomocysteinase inhibitor: DT, drug therapy
adenosylhomocysteinase inhibitor: PD, pharmacology
inosinate dehydrogenase inhibitor: DT, drug therapy
inosinate dehydrogenase inhibitor: PD, pharmacology
deoxyuridine derivative
5 (2 bromovinyl) 2' deoxyuridine: CM, drug comparison
5 (2 bromovinyl) 2' deoxyuridine: DT, drug therapy
5 (2 bromovinyl) 2' deoxyuridine: PD, pharmacology
aciclovir: CM, drug comparison
aciclovir: DT, drug therapy
aciclovir: PD, pharmacology
ester
guanosine derivative: AN, drug analysis
guanosine derivative: DT, drug therapy
guanosine derivative: PD, pharmacology
2',3' dideoxynucleoside derivative: DT, drug therapy
2',3' dideoxynucleoside derivative: PD, pharmacology
RNA directed DNA polymerase inhibitor: DT, drug therapy
RNA directed DNA polymerase inhibitor: PD, pharmacology
cyclam derivative: DT, drug therapy
cyclam derivative: PD, pharmacology
acyclic nucleoside: DT, drug therapy
acyclic nucleoside: PD, pharmacology
phosphonic acid derivative
9 (2,3 dihydroxypropyl)adenine: DT, drug therapy
9 (2,3 dihydroxypropyl)adenine: PD, pharmacology
ribavirin: DT, drug therapy
ribavirin: PD, pharmacology
polyacrylic acid: DT, drug therapy
polyacrylic acid: PD, pharmacology
polymethacrylic acid: DT, drug therapy

polymethacrylic acid: PD, pharmacology
 dextran sulfate: DT, drug therapy
 dextran sulfate: PD, pharmacology
 polyvinyl alcohol sulfate: PD, pharmacology
 polyacrylic acid vinyl alcohol sulfate: PD, pharmacology
 polyvinyl sulfonate: PD, pharmacology
 naphthalenesulfonic acid derivative: PD, pharmacology
 3 deazaaristeromycin: PD, pharmacology
 neplanocin A: PD, pharmacology
 1,1' [1,4 phenylenebis(methylene)]bis(1,4,8,11 tetraazacyclotetradecane):
 DT, drug therapy
 1,1' [1,4 phenylenebis(methylene)]bis(1,4,8,11 tetraazacyclotetradecane):
 PD, pharmacology
 unindexed drug
 unclassified drug
 RN (suramin) 129-46-4, 145-63-1; (5 (2 bromovinyl) 2' deoxyuridine)
 69304-47-8, 82768-44-3; (aciclovir) 59277-89-3; (9 (2,3
 dihydroxypropyl)adenine) 716-17-6; (ribavirin) 36791-04-5; (polyacrylic
 acid) 74350-43-9, 87003-46-1, 9003-01-4, 9003-04-7; (polymethacrylic acid)
 25087-26-7; (dextran sulfate) 9011-18-1, 9042-14-2; (3 deazaaristeromycin)
 58316-88-4; (neplanocin A) 72877-50-0; (1,1' [1,4
 phenylenebis(methylene)]bis(1,4,8,11 tetraazacyclotetradecane))
 155148-31-5
 CN Amd 3100

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ACCESSION NUMBER: 2000389718 EMBASE
 TITLE: Pentacyclic compounds useful as inhibitors of hepatitis C
 virus NS3 helicase.
 SOURCE: Expert Opinion on Therapeutic Patents, (2000) 10/11
 (1777-1779).
 Refs: 5
 ISSN: 1354-3776 CODEN: EOTPEG
 COUNTRY: United Kingdom
 DOCUMENT TYPE: Journal; Article
 FILE SEGMENT: 004 Microbiology
 030 Pharmacology
 037 Drug Literature Index
 039 Pharmacy
 048 Gastroenterology

LANGUAGE: English
 SUMMARY LANGUAGE: English

AB A series of 2,3,5-trisubstituted-1,2,4-thiadiazol-2-ium salts is reported
 by Vertex Pharmaceuticals to possess inhibitory properties against NS3, a
 multifunctional (serine protease and NTPase/helicase) protein of hepatitis
 C virus (HCV), the causative agent of non-A, non-B hepatitis. These
 compounds were prepared by simple synthetic procedures and assayed in
 vitro for their inhibitory properties of different enzymatic activity of
 NS3, such as the unwinding assay, the spectrophotometric ATPase assay, as
 well as the HPLC ATPase activity assay. Some of them showed in vitro
 inhibitory activity in the low micromolar range, making them interesting
 leads for the development of more efficient HCV helicase inhibitors. No in
 vivo data are presented.

CT Medical Descriptors:

*Hepatitis C virus
 hepatitis non A non B

CPD is wrong

hepatitis C
drug synthesis
patent
drug mechanism
antiviral activity
enzyme inhibition
enzyme activity
virus replication
virus inhibition
DNA denaturation
enzyme assay
high performance liquid chromatography
concentration response
drug efficacy
spectrophotometry
reversed phase high performance liquid chromatography
proton nuclear magnetic resonance
nonhuman
article
Drug Descriptors:
*helicase: EC, endogenous compound
*antivirus agent: AN, drug analysis
*antivirus agent: DV, drug development
*antivirus agent: PR, pharmaceuticals
*antivirus agent: PD, pharmacology
virus enzyme: EC, endogenous compound
enzyme inhibitor: AN, drug analysis
enzyme inhibitor: DV, drug development
enzyme inhibitor: PR, pharmaceuticals
enzyme inhibitor: PD, pharmacology
1,2,4 thiadiazol 2 ium salt derivative: AN, drug analysis
1,2,4 thiadiazol 2 ium salt derivative: DV, drug development
1,2,4 thiadiazol 2 ium salt derivative: PR, pharmaceuticals
1,2,4 thiadiazol 2 ium salt derivative: PD, pharmacology
2,3,5 triphenyl 1,2,4 thiadiazol 2 ium salt derivative: AN, drug analysis
2,3,5 triphenyl 1,2,4 thiadiazol 2 ium salt derivative: DV, drug
development
2,3,5 triphenyl 1,2,4 thiadiazol 2 ium salt derivative: PR, pharmaceuticals
2,3,5 triphenyl 1,2,4 thiadiazol 2 ium salt derivative: PD, pharmacology
2,3,5 trinaphthyl 1,2,4 thiadiazol 2 ium salt derivative: AN, drug
analysis
2,3,5 trinaphthyl 1,2,4 thiadiazol 2 ium salt derivative: DV, drug
development
2,3,5 trinaphthyl 1,2,4 thiadiazol 2 ium salt derivative: PR,
pharmaceuticals
2,3,5 trinaphthyl 1,2,4 thiadiazol 2 ium salt derivative: PD, pharmacology
thiadiazole derivative: AN, drug analysis
thiadiazole derivative: DV, drug development
thiadiazole derivative: PR, pharmaceuticals
thiadiazole derivative: PD, pharmacology
1 amino 2 thio 3,4,5 triazole sodium thiocyanate: AN, drug analysis
1 amino 2 thio 3,4,5 triazole sodium thiocyanate: DV, drug development
1 amino 2 thio 3,4,5 triazole sodium thiocyanate: PR, pharmaceuticals
1 amino 2 thio 3,4,5 triazole sodium thiocyanate: PD, pharmacology
virus DNA: EC, endogenous compound
virus RNA: EC, endogenous compound
adenosine triphosphate: EC, endogenous compound

nicotinamide adenine dinucleotide: EC, endogenous compound
reduced nicotinamide adenine dinucleotide: EC, endogenous compound
adenosine diphosphate: EC, endogenous compound
triethylamine
virus protein: EC, endogenous compound
envelope protein: EC, endogenous compound
hepatitis vaccine
serine proteinase: EC, endogenous compound
deoxycytidine kinase: EC, endogenous compound
chymotrypsin: EC, endogenous compound
proton
double stranded DNA: EC, endogenous compound
single stranded DNA: EC, endogenous compound
unclassified drug

RN (helicase) 42613-29-6; (adenosine triphosphate) 15237-44-2, 56-65-5,
987-65-5; (nicotinamide adenine dinucleotide) 53-84-9; (reduced
nicotinamide adenine dinucleotide) 58-68-4; (adenosine
diphosphate) 20398-34-9, 58-64-0; (triethylamine) 121-44-8; (serine
proteinase) 37259-58-8; (deoxycytidine kinase) 9039-45-6; (chymotrypsin)
9004-07-3, 9014-64-6; (proton) 12408-02-5, 12586-59-3
CO Vertex; Viropharma; Phenomenex

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ACCESSION NUMBER: 1998250650 EMBASE
TITLE: Alcoholic liver disease: New aspects of studies.
AUTHOR: Tsutsumi M.; Takase S.
CORPORATE SOURCE: M. Tsutsumi, Division of Gastroenterology, Department of
Internal Medicine, Kanazawa Medical University, Uchinada,
Ishikawa 920-0293, Japan
SOURCE: Japanese Journal of Alcohol Studies and Drug Dependence,
(1998) 33/3 (171-180).
Refs: 32
ISSN: 1341-8963 CODEN: AKYIDF
COUNTRY: Japan
DOCUMENT TYPE: Journal; General Review
FILE SEGMENT: 040: Drug Dependence, Alcohol Abuse and Alcoholism
048 Gastroenterology
LANGUAGE: Japanese
SUMMARY LANGUAGE: English; Japanese

CP 2 is wrong

AB Although many factors related to the pathogenesis of alcoholic liver
disease have been considered, 1) hepatotoxic effects of ethanol and its
metabolites, 2) effects of excessive hepatic NADH generation, 3) hypoxia,
4) alterations of the immune system, 5) genetic factors, and 6)
nutritional factors may play more important roles to produce alcoholic
liver disease. Recently, genetic polymorphism of key enzymes related to
metabolism of ethanol and acetaldehyde, alcohol dehydrogenase, cytochrome
P4502E1 and aldehyde dehydrogenase, have been discovered. On the other
hand, an assay system for hepatitis C virus (HCV) markers has been
developed and a high frequency of HCV markers in alcoholics with liver
disease has been reported. In this review, we focus on recent gains in our
knowledge of pathogenesis of alcoholic liver disease, and discuss the
relationship between alcoholic liver disease and HCV, and treatment of
alcoholic liver disease.

CT Medical Descriptors:
*alcohol liver disease: DI, diagnosis
risk factor

pathogenesis
liver toxicity
genetic polymorphism
enzyme metabolism

hepatitis c virus

genetics

human

review

Drug Descriptors:

acetaldehyde: EC, endogenous compound

alcohol dehydrogenase: EC, endogenous compound

reduced nicotinamide adenine dinucleotide: EC, endogenous compound

cytochrome p450: EC, endogenous compound

RN (acetaldehyde) 75-07-0; (alcohol dehydrogenase) 9031-72-5; (reduced
nicotinamide adenine dinucleotide) **58-68-4**; (cytochrome p450)
9035-51-2

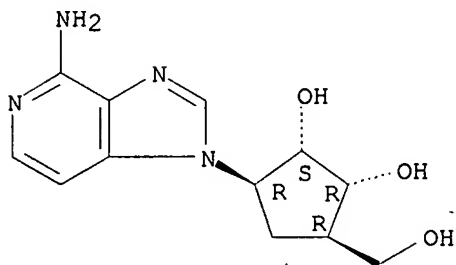
*Cmpd. associated
with answers 1,3,4*

McIntosh 10/602,692

May 25, 2004

L1 ~~ANSWER 1~~ OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 58316-88-4 REGISTRY
CN 1,2-Cyclopentanediol, 3-(4-amino-1H-imidazo[4,5-c]pyridin-1-yl)-5-(hydroxymethyl)-, (1R,2S,3R,5R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,2-Cyclopentanediol, 3-(4-amino-1H-imidazo[4,5-c]pyridin-1-yl)-5-(hydroxymethyl)-, [1R-(1 α ,2 α ,3 β ,5 β)]-
CN 1H-Imidazo[4,5-c]pyridine, 1,2-cyclopentanediol deriv.
OTHER NAMES:
CN 3-Deazaaristeromycin
FS STEREOSEARCH
MF C12 H16 N4 O3
LC STN Files: BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, DDFU, DRUGU, EMBASE, MEDLINE, RTECS*, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
DT.CA Caplus document type: Conference; Journal; Patent; Report
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation)
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

54 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
54 REFERENCES IN FILE CAPLUS (1907 TO DATE)

Compd. assoc. w/ Ref # 2

McIntosh 10/602,692

May 25, 2004

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 56039-11-3 REGISTRY
CN 4H-Imidazo[4,5-c]pyridin-4-one, 6-amino-1,5-dihydro-1-β-D-
ribofuranosyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3-Deazaguanosine
CN 7-Ribosyl-3-deazaguanine
CN ICN 4793
FS STEREOSEARCH
DR 119618-65-4
MF C11 H14 N4 O5

LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT,
CAPLUS, CASREACT, CHEMINFORMRX, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT,
IFIUDB, MEDLINE, MSDS-OHS, PHAR, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

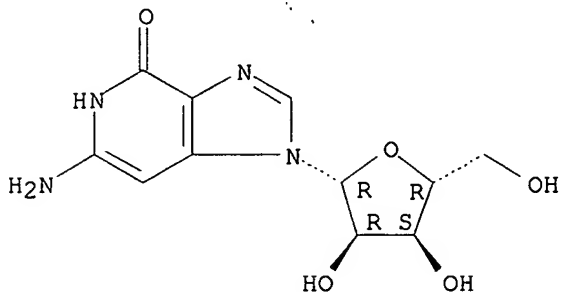
DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC
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RLD.P Roles for non-specific derivatives from patents: BIOL (Biological
study); PREP (Preparation)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

55 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

55 REFERENCES IN FILE CAPLUS (1907 TO DATE)

empd. assoc'd w/ Ref #5

McIntosh 10/602,692

May 25, 2004

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 53-84-9 REGISTRY

CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
3-(aminocarbonyl)-1-β-D-ribofuranosylpyridinium, inner salt (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
3-(aminocarbonyl)-1-β-D-ribofuranosylpyridinium hydroxide, inner salt

CN Pyridinium, 3-carbamoyl-1-β-D-ribofuranosyl-, hydroxide,
5'→5'-ester with adenosine 5'-(trihydrogen pyrophosphate), inner
salt (8CI)

OTHER NAMES:

CN β-Diphosphopyridine nucleotide

CN β-NAD

CN β-NAD+

CN β-Nicotinamide adenine dinucleotide

CN Adenine-nicotinamide dinucleotide

CN CO-I

CN Codehydrase I

CN Codehydrogenase I

CN Coenzyme I

CN Cozymase I

CN Diphosphopyridine nucleotide

CN DPN

CN Enzopride

CN NAD

CN NAD+

CN Nadide

CN Nicotinamide-adenine dinucleotide

CN NSC 20272

CN Oxidized diphosphopyridine nucleotide

FS STEREOSEARCH

DR 30429-30-2, 159929-29-0

MF C21 H27 N7 O14 P2

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, IFICDB,
IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC,
PIRA, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
Report

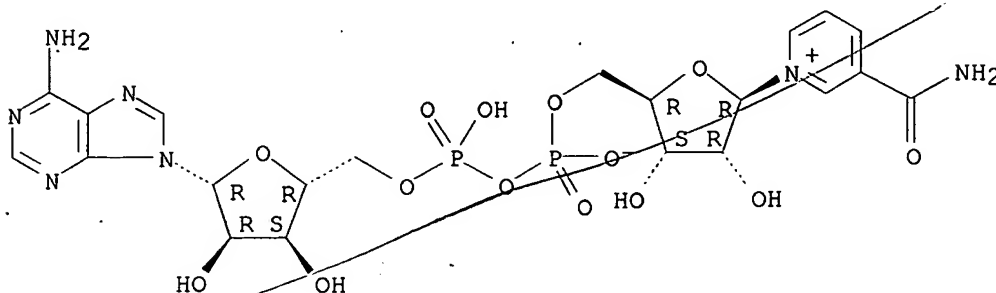
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation);
PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES
(Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP
(Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT

(Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry.



13778 REFERENCES IN FILE CA (1907 TO DATE)
500 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
13792 REFERENCES IN FILE CAPLUS (1907 TO DATE)
129 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

compd assoc'd w/ Ref # 5+6

McIntosh 10/602,692

May 25, 2004

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 58-68-4 REGISTRY

CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
1,4-dihydro-1-β-D-ribofuranosyl-3-pyridinecarboxamide (9CI) (CA
INDEX NAME)

OTHER CA INDEX NAMES:

CN Adenosine 5'-(trihydrogen pyrophosphate), 5'→5'-ester with
1,4-dihydro-1-β-D-ribofuranosylnicotinamide (8CI)

CN Adenosine pyrophosphate, 5'→5'-ester with 1,4-dihydro-1-β-D-
ribofuranosylnicotinamide (7CI)

OTHER NAMES:

CN β-DPNH

CN β-NADH

CN 1,4-Dihydronicotinamide adenine dinucleotide

CN Codehydrase I, reduced

CN Codehydrogenase I, reduced

CN Coenzyme I, reduced

CN Cozymase I, reduced

CN Dihydrocodehydrogenase I

CN Dihydrocozymase

CN Dihydronicotinamide adenine dinucleotide

CN Dihydronicotinamide mononucleotide

CN DPNH

CN NADH

CN NADH2

CN Nicotinamide-adenine dinucleotide, reduced

CN Reduced codehydrogenase I

CN Reduced diphosphopyridine nucleotide

CN Reduced nicotinamide adenine diphosphate

CN Reduced nicotinamide-adenine dinucleotide

FS STEREOSEARCH

DR 443892-10-2

MF C21 H29 N7 O14 P2

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST,
CIN, CSChem, DDFU, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB,
MRCK*, NIOSHTIC, PROMT, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP
(Properties); USES (Uses)

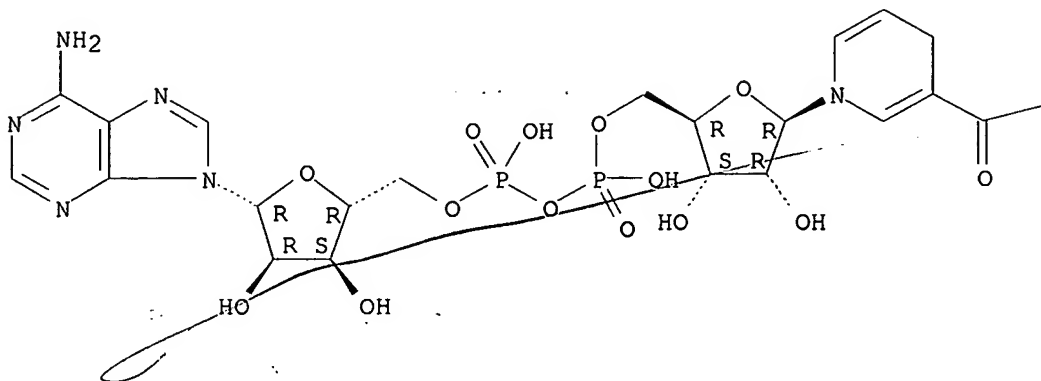
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study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU

(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—NH₂

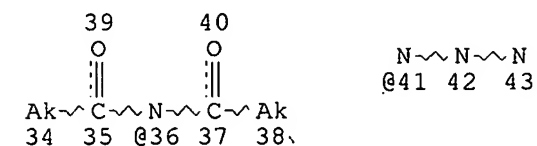
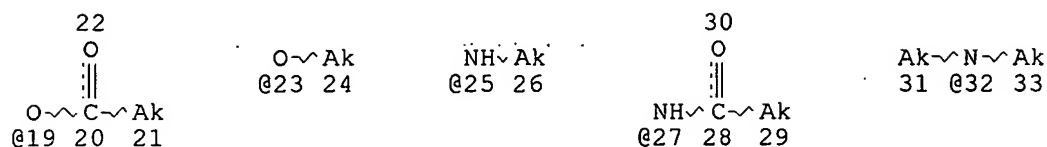
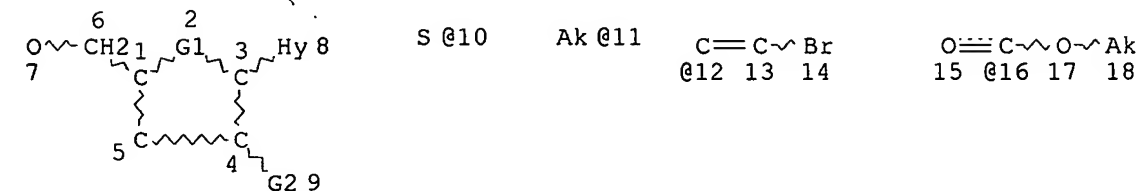
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12810 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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OR N3C2 OR N2CNC)/ESS
L2 (26241)SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND (OC4 OR C5 OR SC4)/ES

L3 STR



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NODE ATTRIBUTES:

CONNECT IS E2 RC AT 10
CONNECT IS E1 RC AT 11
CONNECT IS E1 RC AT 18
CONNECT IS E1 RC AT 21
CONNECT IS E1 RC AT 24
CONNECT IS E1 RC AT 26
CONNECT IS E1 RC AT 29
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CONNECT IS E1 RC AT 33
CONNECT IS E1 RC AT 34
CONNECT IS E1 RC AT 38

DEFAULT MLEVEL IS ATOM

GGCAT IS PCY UNS AT 8

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M2 N AT 8

GRAPH ATTRIBUTES:

RSPEC 4

NUMBER OF NODES IS 43

STEREO ATTRIBUTES: NONE

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L20 1077 SEA FILE=HCAPLUS ABB=ON PLU=ON L4(L) (BAC OR DMA OR PAC OR
PKT OR THU)/RL

L22 3438 SEA FILE=HCAPLUS ABB=ON PLU=ON FLAVIVIRUS+OLD,NT/CT OR

FLAVIVIR?

123 1 SEA FILE HCAPLUS, ABB=ON PLU=ON L20 AND L22

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L23 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:458415 HCAPLUS

DOCUMENT NUMBER: 138:100377

TITLE: Identification of active antiviral compounds against a New York isolate of West Nile virus

AUTHOR(S): Morrey, John D.; Smee, Donald F.; Sidwell, Robert W.; Tseng, Christopher

CORPORATE SOURCE: Department of Animal, Dairy, and Veterinary Sciences, Institute for Antiviral Research, Utah State University, Logan, UT, 84322-4700, USA

SOURCE: Antiviral Research (2002), 55(1), 107-116

CODEN: ARSRDR; ISSN: 0166-3542

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The recent West Nile virus (WNV) outbreak in the United States has increased the need to identify effective therapies for this disease. A chemotherapeutic approach may be a reasonable strategy because the virus infection is typically not chronic and antiviral drugs have been identified to be effective in vitro against other **flaviviruses**. A panel of 34 substances was tested against infection of a recent New York isolate of WNV in Vero cells and active compds. were also evaluated in MA-104 cells. Some of these compds. were also evaluated in Vero cells against the 1937 Uganda isolate of the WNV. Six compds. were identified to be effective against virus-induced CPE with 50% effective concns. (EC50) less than 10 µg/mL and with a selectivity index (SI) of greater than 10. Known inhibitors of orotidine monophosphate decarboxylase and inosine monophosphate dehydrogenase involved in the synthesis of GTP, UTP, and TTP were most effective. The compds. 6-azauridine, 6-azauridine triacetate, cyclopentylcytosine (CPE-C), mycophenolic acid and pyrazofurin appeared to have the greatest activities against the New York isolate, followed by 2-thio-6-azauridine. Anti-WNV activity of 6-azauridine was confirmed by virus yield reduction assay when the assay was performed 2 days after initial infection in Vero cells. The neutral red assay mean EC50 of ribavirin was only 106 µg/mL with a mean SI of 9.4 against the New York isolate and only slightly more effective against the Uganda isolate. There were some differences in the drug sensitivities of the New York and Uganda isolates, but when comparisons were made by categorizing drugs according to their modes of action, similarities of activities between the two isolates were identified.

CC 1-5 (Pharmacology)

IT Antiviral agents

West Nile virus

(identification of active antiviral compds. against a New York isolate of West Nile virus)

IT 54-25-1, 6-Azauridine 141-90-2, 2-Thiouracil 145-63-1, Suramin 316-46-1, 5-Fluorouridine 320-67-2, 5-Azacytidine 548-04-9, Hypericin 2169-64-4, 6-Azauridine triacetate 13877-76-4, Formycin B 20201-55-2, 6-Bromotocoyocamycin 24280-93-1, Mycophenolic acid 27089-56-1, 2-Thio-6-azauridine 30868-30-5, Pyrazofurin 36791-04-5, Ribavirin 42400-25-9 54262-83-8, (S)-9-(2,3-Dihydroxypropyl)adenine

56039-11-3, 3-Deazaguanosine 60084-10-8, Tiazofurin 62488-57-7
83705-13-9, Selenazofurin 90597-20-9 90597-22-1, Cyclopentenylcytosine
102052-95-9, 3-Deazaneplanocin A 102977-57-1 119567-79-2, Ribamidine

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(identification of active antiviral compds. against a New York isolate of West Nile virus)

IT 56039-11-3, 3-Deazaguanosine

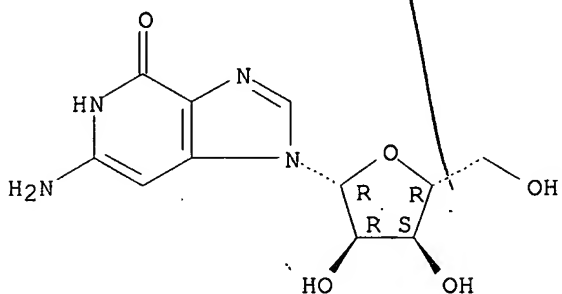
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(identification of active antiviral compds. against a New York isolate of West Nile virus)

RN 56039-11-3 HCAPLUS

CN 4H-Imidazo[4,5-c]pyridin-4-one, 6-amino-1,5-dihydro-1- β -D-ribofuranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



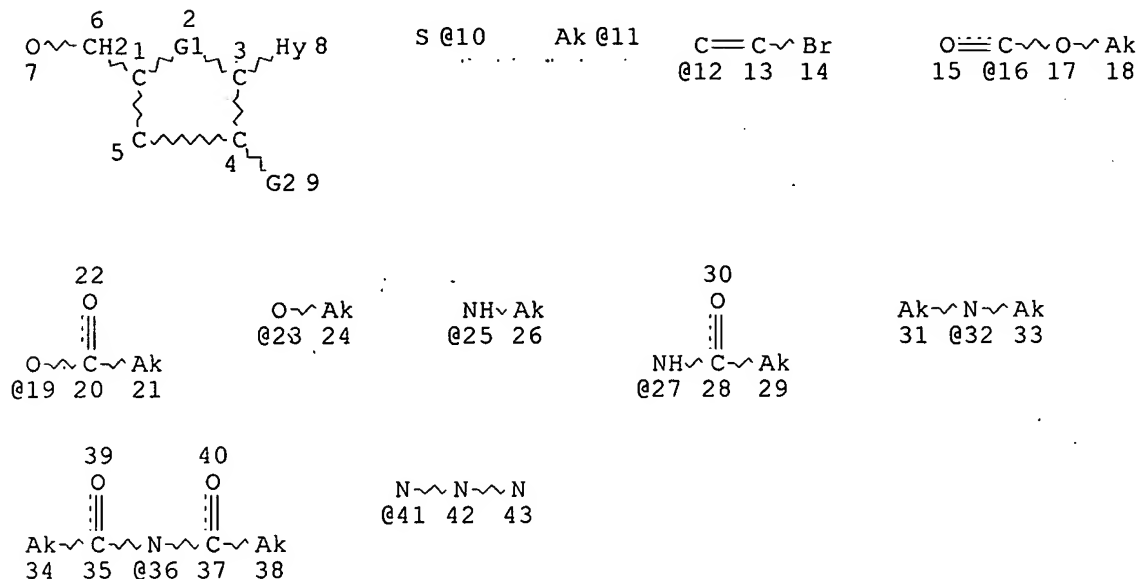
REFERENCE COUNT:

37

THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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OR N3C2 OR N2CNC)/ESS
L2 (26241)SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND (OC4 OR C5 OR SC4)/ES
L3 STR



VAR G1=O/10/SO2/CH2
VAR G2=OH/11/41/CN/12/16/19/23/X/NO2/NH2/25/27/32/36
NODE ATTRIBUTES:

CONNECT IS E2 RC AT 10
CONNECT IS E1 RC AT 11
CONNECT IS E1 RC AT 18
CONNECT IS E1 RC AT 21
CONNECT IS E1 RC AT 24
CONNECT IS E1 RC AT 26
CONNECT IS E1 RC AT 29
CONNECT IS E1 RC AT 31
CONNECT IS E1 RC AT 33
CONNECT IS E1 RC AT 34
CONNECT IS E1 RC AT 38
DEFAULT MLEVEL IS ATOM
GGCAT IS PCY UNS AT 8
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M2 N AT 8

GRAPH ATTRIBUTES:

RSPEC 4
NUMBER OF NODES IS 43

STEREO ATTRIBUTES: NONE

L4 3150 SEA FILE=REGISTRY SUB=L2 SSS FUL L3
L28 1 SEA FILE=USPATFULL ABB=ON PLU=ON L4 AND FLAVIVIR?

=> d bib abs

L28 ANSWER 1 OF 1 USPATFULL on STN
 AN 2004:1847 USPATFULL
 TI Attenuated mycobacterium tuberculosis vaccines
 IN Jacobs, William R., Pelham, NY, UNITED STATES
 Hsu, Tsungda, Bronx, NY, UNITED STATES
 Bardarov, Stoyan, Bronx, NY, UNITED STATES
 Sambandamurthy, Vasan, Worcester, MA, UNITED STATES LR
 PI US 2004001866 A1 20040101
 AI US ~~2003-351452~~ A1 20030124 (10)
 PRAI US 2002-358152P 20020219 (60)
 DT Utility
 FS APPLICATION
 LREP Elie H. Gendloff, Craig J. Arnold, Alan D. Miller, Amster, Rothstein & Ebenstein, 90 Park Avenue, New York, NY, 10016
 CLMN Number of Claims: 125
 ECL Exemplary Claim: 1
 DRWN 22 Drawing Page(s)
 LN.CNT 3313

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Non-naturally occurring mycobacteria in the Mycobacterium tuberculosis complex are provided. These mycobacteria have a deletion of an RD1 region or a region controlling production of a vitamin, and exhibit attenuated virulence in a mammal when compared to the mycobacteria without the deletion. Also provided are non-naturally occurring mycobacteria that have a deletion of a region controlling production of lysine, and mycobacteria comprising two attenuating deletions. Vaccines comprising these mycobacteria are also provided, as are methods of protecting mammals from virulent mycobacteria using the vaccines. Also provided are methods of preparing these vaccines which include the step of deleting an RD1 region or a region controlling production of a vitamin from a mycobacterium in the M. tuberculosis complex.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d ind

L28 ANSWER 1 OF 1 USPATFULL on STN
 INCL INCLM: 424/248.100
 INCLS: 435/252.300
 NCL NCLM: 424/248.100
 NCLS: 435/252.300
 IC [7]
 ICM: A61K039-04
 ICS: C12N001-21

CHEMICAL ABSTRACTS INDEXING COPYRIGHT 2004 ACS on STN

	PATENT	KIND	DATE
OS	CA 139:212868 * WO	03070164 A2	20030828
* CA Indexing for this record included			
CC	15-2 (Immunochemistry)		
	Section cross-reference(s): 3, 63		
ST	Mycobacterium tuberculosis vitamin pantothenic acid NAD RD1 region		

deletion; antigen vaccine Mycobacterium tuberculosis RD1 deletion
IT Borrelia
Cattle
DNA sequences
Genetic engineering
Genetic markers
Herpesviridae
Human
Human immunodeficiency virus
Human poliovirus
Immunodeficiency
Immunostimulants
Infection
Leishmania
Mammalia
Measles virus
Molecular cloning
Mouse
Mumps virus
Mycobacterium BCG
Mycobacterium africanum
Mycobacterium avium
Mycobacterium bovis
Mycobacterium intracellulare
Mycobacterium leprae
Mycobacterium tuberculosis
Neisseria
Pertussis
Rabies
Recombination, genetic
Salmonella
Shigella
Transduction, genetic
Treponema
Vaccines
Vibrio cholerae
(attenuated Mycobacterium tuberculosis comprising deletion of RD1
region for vaccine prepns.)
IT Vitamins
(attenuated Mycobacterium tuberculosis comprising deletion of RD1
region for vaccine prepns.)
IT Antigens
(attenuated Mycobacterium tuberculosis comprising deletion of RD1
region for vaccine prepns.)
IT Enzymes, biological studies
(attenuated Mycobacterium tuberculosis comprising deletion of RD1
region for vaccine prepns.)
IT Interleukin 1
(attenuated Mycobacterium tuberculosis comprising deletion of RD1
region for vaccine prepns.)
IT Interleukin 2
(attenuated Mycobacterium tuberculosis comprising deletion of RD1
region for vaccine prepns.)
IT Interleukin 3
(attenuated Mycobacterium tuberculosis comprising deletion of RD1
region for vaccine prepns.)
IT Interleukin 4

(attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Interleukin 5
(attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Interleukin 6
(attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Interleukin 7
(attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Lymphokines
(attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Lymphotoxin
(attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Reporter gene
(attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Tumor necrosis factors
(attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Microorganism
(auxotrophic; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Development, mammalian postnatal
(child; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Toxoids
(diphtheria; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Steroids, biological studies
(enzyme; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Drug delivery systems
(injections, s.c.; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Venoms
(insect; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Drug delivery systems
(intradermal; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Development, microbial
(merozoite, malaria; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT DNA
(recombinant; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Gene, microbial
(sacB; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Mutagenesis
(site-directed, deletion; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine prepns.)

IT Venoms

(snake; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine preps.)

IT Development, microbial
(sporozoite, malaria; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine preps.)

IT Toxoids
(tetanus; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine preps.)

IT Tuberculosis
(vaccine; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine preps.)

IT Insecta
(venom; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine preps.)

IT Interferons
(α ; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine preps.)

IT Interferons
(β ; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine preps.)

IT Interferons
(γ ; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine preps.)

IT 53-84-9, Nicotinamide adenine dinucleotide 56-87-1, L-Lysine, biological studies 61-90-5, L-Leucine, biological studies 73-22-3, L-Tryptophan, biological studies 79-83-4, Pantothenic acid 147-85-3, L-Proline, biological studies
(attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine preps.)

IT 9001-45-0, β Glucuronidase 9014-00-0, Luciferase 9031-11-2, β Galactosidase 63774-46-9
(attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine preps.)

IT 588746-25-2P
(nucleotide sequence; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine preps.)

IT 588746-26-3 588746-27-4 588746-28-5
(nucleotide sequence; attenuated Mycobacterium tuberculosis comprising deletion of RD1 region for vaccine preps.)

IT 588747-89-1 588747-90-4 588747-91-5 588747-92-6 588747-93-7 588747-94-8 588747-95-9 588747-96-0
(unclaimed nucleotide sequence; attenuated Mycobacterium tuberculosis vaccines comprising deletion of RD1 region)

Inventor

McIntosh 10/602,692

May 25, 2004

L15 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:886155 HCAPLUS
DOCUMENT NUMBER: 136:590
ENTRY DATE: Entered STN: 07 Dec 2001
TITLE: Methods and compositions using modified nucleosides
for treating flaviviruses and pestiviruses
INVENTOR(S): Sommadossi, Jean-Pierre; Lacolla,
Paolo
PATENT ASSIGNEE(S): Novirio Pharmaceuticals Limited, Cayman I.; Universita
Degli Studi Di Cagliari
SOURCE: PCT Int. Appl., 302 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
INT. PATENT CLASSIF.:
MAIN: C07H019-00
CLASSIFICATION: 1-5 (Pharmacology)
Section cross-reference(s): 63
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001092282	A2	20011206	WO 2001-US16687	20010523
WO 2001092282	A3	20020502		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1294735	A2	20030326	EP 2001-952131	20010523
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 2003060400	A1	20030327	US 2001-863816	20010523
JP 2004510698	T2	20040408	JP 2002-500895	20010523
NO 2002005600	A	20030117	NO 2002-5600	20021121
US 2004063622	A1	20040401	US 2003-602693	20030620
US 2004097462	A1	20040520	US 2003-602692	20030620
PRIORITY APPLN. INFO.:			US 2000-207674P P	20000526
			US 2001-283276P P	20010411
			US 2001-863816 A3	20010523
			WO 2001-US16687 W	20010523

OTHER SOURCE(S): MARPAT 136:590

ABSTRACT:

A method and composition are provided for treating a host infected with flavivirus or pestivirus, comprising administering an effective amount of a 1', 2' or 3'-modified nucleoside or a pharmaceutically acceptable salt or prodrug thereof.

SUPPL. TERM: flavivirus pestivirus antiviral nucleoside deriv

INDEX TERM: Drug delivery systems
(capsules; nucleoside derivs. for treating flaviviruses)

and pestiviruses)

INDEX TERM: Toxicity
(drug; nucleoside derivs. for treating flaviviruses and pestiviruses)

INDEX TERM: Hematopoietic precursor cell
(erythroid burst-forming; nucleoside derivs. for treating flaviviruses and pestiviruses)

INDEX TERM: Hematopoietic precursor cell
(granulocyte-macrophage colony-forming; nucleoside derivs. for treating flaviviruses and pestiviruses)

INDEX TERM: Mitochondria
(mitochondrial toxicity; nucleoside derivs. for treating flaviviruses and pestiviruses)

INDEX TERM: Toxicity
(myelotoxicity; nucleoside derivs. for treating flaviviruses and pestiviruses)

INDEX TERM: Antiviral agents
Bovine diarrhea virus
Cytotoxicity
Drug bioavailability
Flavivirus
Pestivirus
(nucleoside derivs. for treating flaviviruses and pestiviruses)

INDEX TERM: Drug delivery systems
(tablets; nucleoside derivs. for treating flaviviruses and pestiviruses)

INDEX TERM: Bone marrow
(toxicity; nucleoside derivs. for treating flaviviruses and pestiviruses)

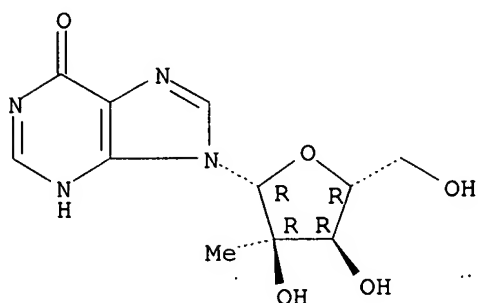
INDEX TERM: Drug delivery systems
(unit doses; nucleoside derivs. for treating flaviviruses and pestiviruses)

INDEX TERM: 15397-12-3 16848-12-7 20724-73-6 31448-54-1
69123-98-4, FIAU 119410-84-3 374750-30-8 374750-32-0
ROLE: ADV (Adverse effect, including toxicity); PAC
(Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(nucleoside derivs. for treating flaviviruses and pestiviruses)

INDEX TERM: 125911-76-4 374750-27-3 374750-28-4 374750-29-5
ROLE: BSU (Biological study, unclassified); PKT
(Pharmacokinetics); BIOL (Biological study)
(nucleoside derivs. for treating flaviviruses and pestiviruses)

INDEX TERM: 34441-68-4 38946-83-7 38946-84-8 54401-19-3
374750-31-9
ROLE: PAC (Pharmacological activity); THU (Therapeutic use);
BIOL (Biological study); USES (Uses)
(nucleoside derivs. for treating flaviviruses and pestiviruses)

L16 ANSWER 1 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
RN 374750-32-0 REGISTRY
CN Inosine, 2'-C-methyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H14 N4 O5
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)
Absolute stereochemistry.

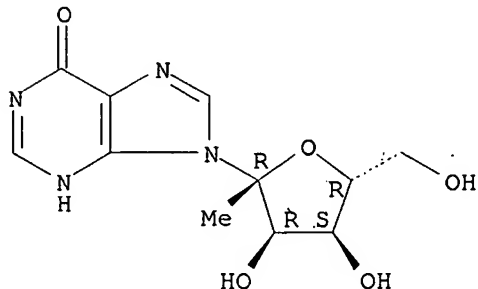


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 2 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
RN 374750-31-9 REGISTRY
CN Inosine, 1'-C-methyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H14 N4 O5
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)

Absolute stereochemistry.

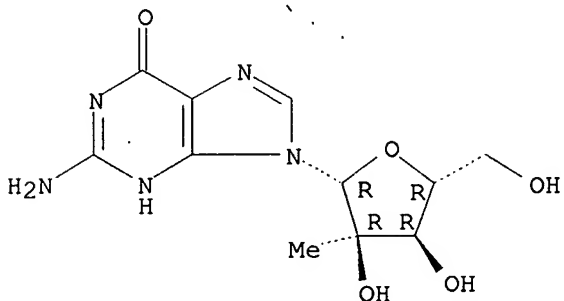


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 3 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
RN 374750-30-8 REGISTRY
CN Guanosine, 2'-C-methyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H15 N5 O5
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); USES (Uses)

Absolute stereochemistry.

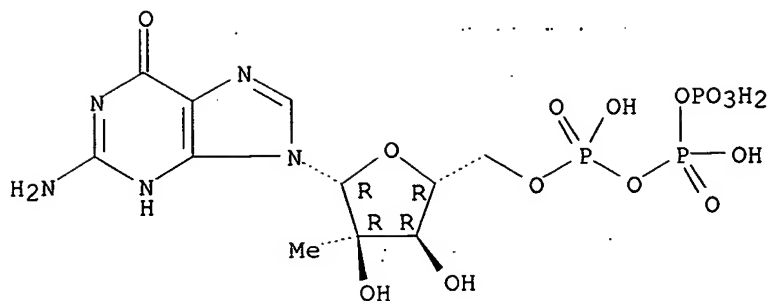


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 4 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
RN 374750-29-5 REGISTRY
CN Guanosine 5'-(tetrahydrogen triphosphate), 2'-C-methyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H18 N5 O14 P3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 5 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 374750-28-4 REGISTRY

CN Cytidine 5'-(tetrahydrogen triphosphate), 2'-C-methyl- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C10 H18 N3 O14 P3

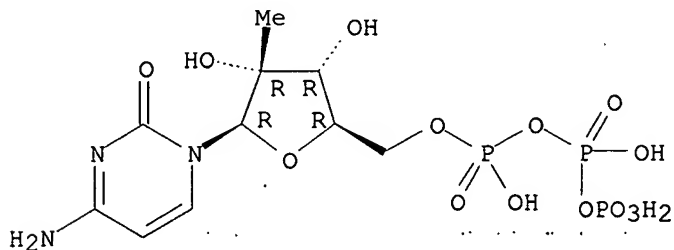
SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 6 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 374750-27-3 REGISTRY

CN Adenosine 5'-(tetrahydrogen triphosphate), 2'-C-methyl- (9CI) (CA INDEX NAME)

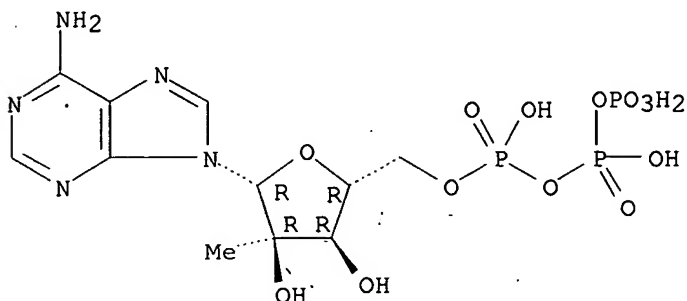
FS STEREOSEARCH

MF C11 H18 N5 O13 P3

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 DT.CA Caplus document type: Journal; Patent
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 RL.NP Roles from non-patents: BIOL (Biological study); USES (Uses)

Absolute stereochemistry.

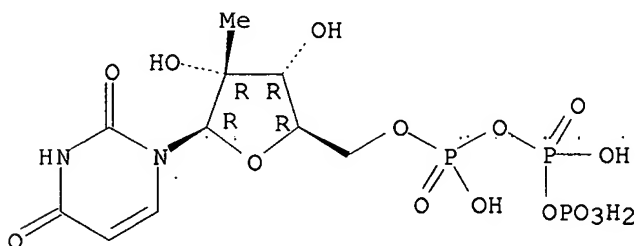


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 7 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 125911-76-4 REGISTRY
 CN Uridine 5'-(tetrahydrogen triphosphate), 2'-C-methyl- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C10 H17 N2 O15 P3
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent)

Absolute stereochemistry.

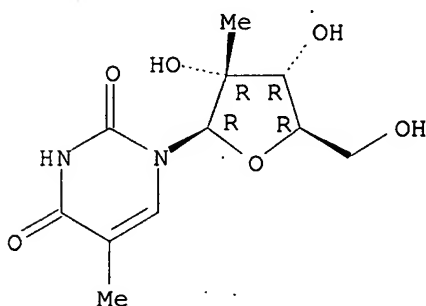


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7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 8 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
RN 119410-84-3 REGISTRY
CN Uridine, 5-methyl-2'-C-methyl- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H16 N2 O6
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
DT.CA Cplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 9 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
RN 69123-98-4 REGISTRY
CN 2,4(1H,3H)-Pyrimidinedione, 1-(2-deoxy-2-fluoro-β-D-arabinofuranosyl)-5-iodo- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-(2'-Deoxy-2'-fluoro-β-D-arabinofuranosyl)-5-iodouracil
CN 1-(2-Deoxy-2-fluoro-β-D-arabinofuranosyl)-5-iodouracil
CN 5-Iodo-2'-fluoroarauracil
CN Fialuridine
CN FIAU
CN Fluoriodoarauracil
CN NSC 678514
FS STEREOSEARCH
DR 129049-36-1
MF C9 H10 F I N2 O5
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CIN, DDFU, DRUGU, EMBASE, IMSDRUGNEWS, IMSRESEARCH, IPA, MEDLINE, MRCK*, PHAR, PROMT, PROUSDDR, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL, VETU

(*File contains numerically searchable property data)

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent

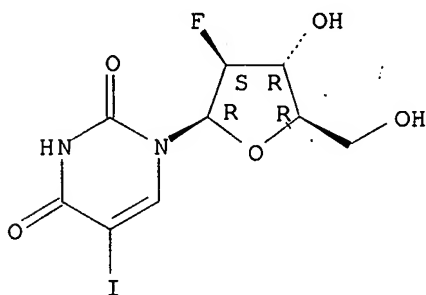
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

178 REFERENCES IN FILE CA (1907 TO DATE)
 14 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 178 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 10 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 54401-19-3 REGISTRY

CN Guanosine, 1'-C-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 6H-Purin-6-one, 2-amino-9-(1-deoxy-β-D-psicofuranosyl)-1,9-dihydro-

FS STEREOSEARCH

MF C11 H15 N5 O5

LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER, USPATFULL

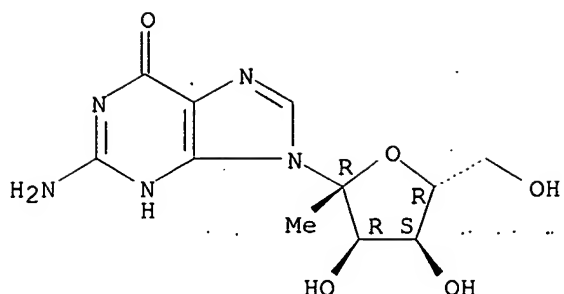
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DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 11 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 38946-84-8 REGISTRY

CN Cytidine, 1'-C-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2(1H)-Pyrimidinone, 4-amino-1-(1-deoxy-β-D-psicofuranosyl)-

OTHER NAMES:

CN 1-(1-Deoxy-β-D-psicofuranosyl)cytosine

FS STEREOSEARCH

MF C10 H15 N3 O5

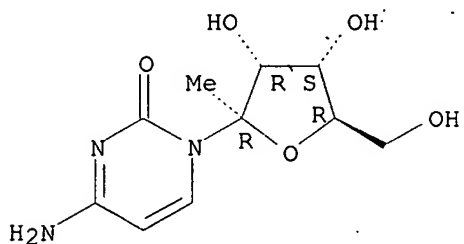
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 12 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 38946-83-7 REGISTRY

CN Uridine, 1'-C-methyl- (9CI) (CA INDEX NAME)

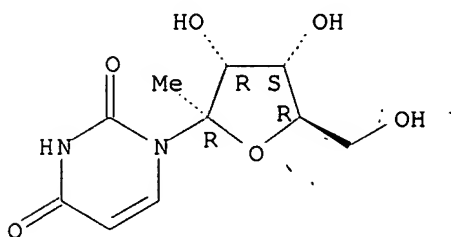
OTHER CA INDEX NAMES:

CN 2,4(1H,3H)-Pyrimidinedione, 1-(1-deoxy-β-D-psicofuranosyl)-

OTHER NAMES:

CN 1-(1-Deoxy- β -D-psicofuranosyl)uracil
 FS STEREOSEARCH
 MF C10 H14 N2 O6
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
 RL.NP Roles from non-patents: RACT (Reactant or reagent)

Absolute stereochemistry.

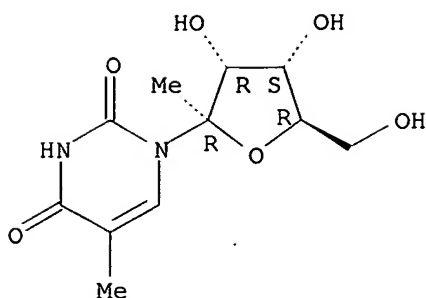


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 13 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 34441-68-4 REGISTRY
 CN Uridine, 5-methyl-1'-C-methyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2,4(1H,3H)-Pyrimidinedione, 1-(1-deoxy- β -D-psicofuranosyl)-5-methyl-
 CN Thymine, 1-(1-deoxy- β -D-psicofuranosyl)- (8CI)
 OTHER NAMES:
 CN 1-(1-Deoxy- β -D-psicofuranosyl)thymine
 FS STEREOSEARCH
 MF C11 H16 N2 O6
 LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMINFORMRX, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1907 TO DATE)

9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 14 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 31448-54-1 REGISTRY

CN Uridine, 2'-C-methyl- (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2'-C-Methyluridine

FS STEREOSEARCH

MF C10 H14 N2 O6

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL

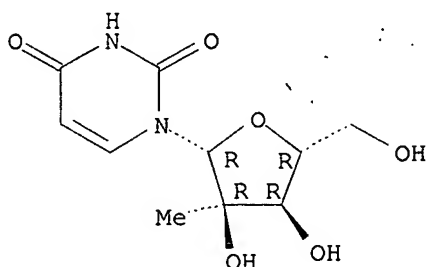
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DT.CA Caplus document type: Journal; Patent

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RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

21 REFERENCES IN FILE CA (1907 TO DATE)

21 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 15 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 20724-73-6 REGISTRY

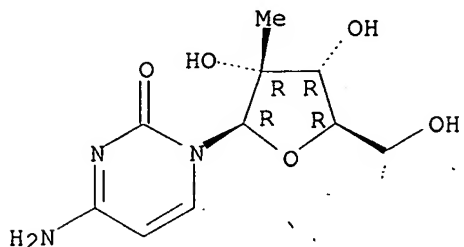
CN Cytidine, 2'-C-methyl- (8CI, 9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C10 H15 N3 O5

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT
 (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);
 RACT (Reactant or reagent)

Absolute stereochemistry.

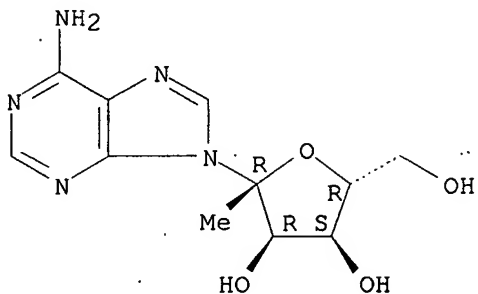


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 REFERENCES IN FILE CA (1907 TO DATE)
 15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 16 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 16848-12-7 REGISTRY
 CN Adenosine, 1'-C-methyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Adenine, 9-(1-deoxy-β-D-psicofuranosyl)- (8CI)
 FS STEREOSEARCH
 MF C11 H15 N5 O4
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 17 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 15397-12-3 REGISTRY

CN Adenosine, 2'-C-methyl- (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2'-C-Methyladenosine

FS STEREOSEARCH

MF C11 H15 N5 O4

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB,
TOXCENTER, USPATFULL

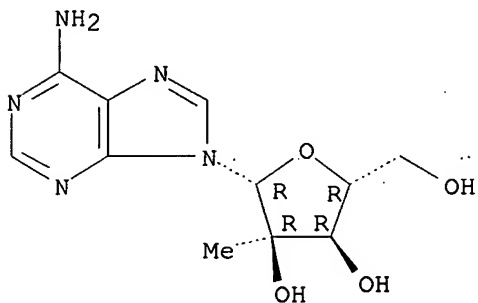
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DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT
(Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);
PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

23 REFERENCES IN FILE CA (1907 TO DATE)

23 REFERENCES IN FILE CAPLUS (1907 TO DATE)